

PATENT APPLICATION
Mo-6053
WW-5560

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF)
)
HOLGER EGGERS ET AL)
)
SERIAL NUMBER: TO BE ASSIGNED)
)
FILED: HEREWITH)
)
TITLE: HIGHLY TRANSPARENT)
 THERMOFORMABLE)
 POLYAMIDE FILM)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

This preliminary amendment is being filed concurrently with the subject patent application. Upon granting a Serial Number and filing date, please amend the subject patent application as follows.

"Express Mail" mailing label number E663384375US
Date of Deposit March 16, 2021

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231

Jeanne J. Veatch
(Name of person mailing paper or fee)
Don J. Vater
Signature of person mailing paper or fee)

Please amend the Application as follows.

IN THE ABSTRACT:

Please replace the text of the Abstract of the Disclosure with the following.

--Described is a thermoformable film comprising at least one layer (I) of polyamide containing solid anisotropic fillers (A) and individual spherulites. The anisotropic fillers (A) of the layer (I) of the thermoformable film, in a number-weighted average of all the dispersed constituents of the anisotropic fillers (A), have a dimension of no more than 10 nm in at least one first direction (r1) freely selectable for each dispersed constituent and, in at least one second direction (r2) perpendicular to the first direction (r1), have a dimension of at least 50 times the dimension in the first direction (r1). The individual spherulites in the layer (I) have a number-average distance from each other of no more than 50 nm, and the cores of a majority of the individual spherulites in the layer (I) are free of a filler particle of the anisotropic fillers (A). Also described is a method of preparing the thermoformable films of the present invention, and methods of using the films for, for example, packaging foodstuffs.--

A new abstract page is included herewith.

REMARKS

The term "10 m" in line 5 of the abstract has been changed to --10 nm-- by amendment herein. This amendment does not represent the entry of new matter into the application. Applicants respectfully request entry of this amendment.

Respectfully submitted,

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By



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VERSIONS WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT: (Marked-Up)

The following is a version of the Abstract of the Disclosure with markings to show changes made thereto relative to the original version of the Abstract of the Disclosure.

Described is a thermoformable film comprising at least one layer (I) of polyamide containing solid anisotropic fillers (A) and individual spherulites. The anisotropic fillers (A) of the layer (I) of the thermoformable film, in a number-weighted average of all the dispersed constituents of the anisotropic fillers (A), have a dimension of no more than 10 nm in at least one first direction (r1) freely selectable for each dispersed constituent and, in at least one second direction (r2) perpendicular to the first direction (r1), have a dimension of at least 50 times the dimension in the first direction (r1). The individual spherulites in the layer (I) have a number-average distance from each other of no more than 50 nm, and the cores of a majority of the individual spherulites in the layer (I) are free of a filler particle of the anisotropic fillers (A). Also described is a method of preparing the thermoformable films of the present invention, and methods of using the films for, for example, packaging foodstuffs.

HIGHLY TRANSPARENT THERMOFORMABLE POLYAMIDE FILM

ABSTRACT OF THE DISCLOSURE

Described is a thermoformable film comprising at least one layer (I) of polyamide containing solid anisotropic fillers (A) and individual spherulites. The anisotropic fillers (A) of the layer (I) of the thermoformable film, in a number-weighted average of all the dispersed constituents of the anisotropic fillers (A), have a dimension of no more than 10 nm in at least one first direction (r1) freely selectable for each dispersed constituent and, in at least one second direction (r2) perpendicular to the first direction (r1), have a dimension of at least 50 times the dimension in the first direction (r1). The individual spherulites in the layer (I) have a number-average distance from each other of no more than 50 nm, and the cores of a majority of the individual spherulites in the layer (I) are free of a filler particle of the anisotropic fillers (A). Also described is a method of preparing the thermoformable films of the present invention, and methods of using the films for, for example, packaging foodstuffs.